## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION            | INITIALS | ID N ). | DATE    |
|---------------------|----------|---------|---------|
| FEE DETERMINATION   | 0.6.     |         | 5/26/90 |
| O.I.P.E. CLASSIFIER | 8        | 12      | 5/2-1   |
| FORMALITY REVIEW    | 14/16    | 71201   | 694199  |

## INDEX OF CLAIMS

| 4 | Rejected                   | N   | Non-elected  |
|---|----------------------------|-----|--------------|
| = | Allowed                    | - 1 | Interference |
|   | (Through numeral) Canceled | Α   | Appeal       |
| _ | Restricted                 | Λ   | Ohiected     |

|              |                |          |      |          |                   |  |          |          | ÷        | ••••     | •••••    | •••••        | ••••     |  |
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| Ct           | im             | L        | Date |          |                   |  |          |          |          |          |          |              |          |  |
| Final        | Original       | 701 72   | ,    | (1) 1/18 | 417112            |  |          |          |          |          |          |              |          |  |
| Т            |                | 2        | ٠    | τ        | 7                 | <u>,                                    </u> |          |          |          |          |          |              |          |  |
|              | 2              | ١,       |      |          | П                 |  |          |          |          |          |          |              |          |  |
|              | 3              | П        | Ī    | П        | П                 |  |          |          |          |          |          |              |          |  |
| Г            | 4              | П        | Ī    | П        | П                 |  | Г        |          |          |          |          |              |          |  |
|              | 5              | П        |      | П        | П                 |  |          |          |          |          |          |              |          |  |
|              | 6              | П        |      |          | Ī                 |  |          |          | П        |          |          |              |          |  |
|              | 7              | П        |      |          |                   |  |          |          |          |          |          |              |          |  |
|              | 8              | $\prod$  |      |          |                   |  |          |          |          |          |          |              |          |  |
|              | 10<br>11       | Ц        | _    |          | L                 |  |          |          |          |          |          |              |          |  |
|              | ゆ              | Ц        |      | L        | L                 | L  | L        |          | L        |          |          |              | _        |  |
|              |                | Ц        |      | L        | Ц                 | L.,  | L        |          | Щ        |          |          |              | Ŀ        |  |
|              | 12             | Ц        |      | L        | Ц                 | L.   |          | Ш        | Ш        |          |          |              | _        |  |
|              | 13             | Ц        |      | L        | Ц                 | 匚  | L        | Ľ        | L_       | _        |          | _            | -        |  |
| _            | 14             | Ц        | _    | L        | Ц                 | L.   |          | Ш        | ļ.,      |          |          |              | L        |  |
| _            | 15<br>18<br>17 | Н        | _    | Н        | Ц                 | L  | _        | _        | Н        | -        | _        | _            | Ĺ.       |  |
|              | <u>  "P</u>    | Н        | _    | Н        | _                 | $\vdash$                                     | H        | <u> </u> | -        |          | -        |              | _        |  |
| ⊢            | 18             | Н        | -    | Н        | 4                 | $\vdash$                                     | Н        | $\vdash$ | Н        | ·        |          | -            | -        |  |
| H            | 19             | Н        | -    | Н        | 4                 | H  | H        | -        | Н        | Н        | Н        | Н            | -        |  |
| -            | 20             | Н        | H    | Н        | _                 | H  | Н        | H        | Н        |          |          | $\vdash$     | •        |  |
| -            | ـــ            | H        | H    | Н        | Н                 | H  | Н        | H        | Н        | _        | Щ.       | ŀ            | -        |  |
| -            | 21             |          | Н    | Н        | Н                 | <u> </u>                                     | H        | -        |          | -        | :        | -            | H        |  |
| $\vdash$     | 盂              | Н        | H    | Н        | Н                 | H  | Н        | H        | -        | $\vdash$ | _        |              | $\vdash$ |  |
| -            | 22 23 24       | Н        | H    | Н        | Н                 |  | Н        | $\vdash$ | H        |          | Н        | • •          | Н        |  |
|              | 毒              | H        | Н    | r        | H                 | _  | <u>-</u> |          | -        |          | ÷        | 3.           | F        |  |
|              | 26             | Ħ        | H    | H        | H                 | Т  | -        |          |          | ·        |          | i            | Η        |  |
|              | 27             | П        | Т    | Г        | T                 |  | 7        |          |          |          | •        |              |          |  |
|              | 28             | П        |      | Г        | П                 |  |          | -        | Г        |          |          | ٠.           |          |  |
|              | 29             | П        | П    |          | ,                 |  |          |          |          | 1.       | 3        |              |          |  |
|              | 30             |          |      |          |                   |  | ·        |          |          | ř        |          |              |          |  |
|              | 31             |          |      | Ŀ        |                   |  |          |          |          | . ]      |          |              |          |  |
|              | 32             | L        | Ц    | L        | Ц                 | L  | Ŀ        | <u> </u> | Ш        | ٠        | Ш        |              | L        |  |
|              | 33             | L        | Ц    | L        | Ц                 |  | Ŀ        | L        |          |          |          | L.           | L        |  |
| _            | 34             | L        | H    | L        | L                 | L  | $\vdash$ | L        | L        | Щ        | Ц        | $\vdash$     | $\vdash$ |  |
| -            | 35             | L        | Ļ    | L        | L                 | $\vdash$                                     | L        | ⊢        | _        | ļ        | L        | L            | -        |  |
| -            | 3 7 8 9 9      | $\vdash$ | H    | $\vdash$ | ŀ                 | <u> </u>                                     | -        | -        | ├-       | -        | -        | <u> </u>     | -        |  |
| -            | #              | ┞        | H    | H        | H                 | ├-   | -        | 1        | ├        | ď        | ├-       | -            | -        |  |
| ⊢            | 玉              | $\vdash$ | H    | ι        | Y                 | ⊢  | -        | ┢        | $\vdash$ | -        | ├-       | ⊢            | $\vdash$ |  |
| H            | 墦              | ۲        | H    | 1        |                   | H  | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ | F        | $\vdash$     | H        |  |
| $\vdash$     | t              | H        | H    | ۲        | 1                 | $\vdash$                                     | $\vdash$ |          |          | H        | $\vdash$ | H            | $\vdash$ |  |
| $\vdash$     | 6              | Н        | L    | Н        | Г                 | ┝  | ٦,       | -        | $\vdash$ | ├        | -        | <del> </del> | ┝        |  |
| <del> </del> | 電子             | H        |      | k        | 7                 | $\vdash$                                     | Ι-       | $\vdash$ | $\vdash$ | +        | $\vdash$ | $\vdash$     | H        |  |
| -            | 44             | Ħ        |      | ī        | ž                 | $\vdash$                                     | H        |          | $\vdash$ | -        | H        | Н            | H        |  |
| -            | 45             | 4        | _    | h        | _                 |  |          | T        | T        | $\vdash$ | H        | $\vdash$     | H        |  |
| Г            | 48             |          | _    | Ħ        | _                 |  | Г        | Г        | Г        | Γ        | Г        | Г            | Г        |  |
|              | 47             | Ħ        | _    | П        |                   | Г  | Т        | Г        | Г        |          | _        | Г            | Г        |  |
|              | 48             | Ħ        | _    | Г        |                   |  |          |          |          |          | Ŀ        |              |          |  |
|              | 49             |          |      | Γ        | Γ<br><del>/</del> |  |          |          |          |          |          |              | L        |  |
|              | 1              | "        |      | •        | T                 |  | _        | _        | _        |          |          |              | _        |  |

| Cla      | im l                                   |                                     |          |          |          | Dat  | 9  |  |             |  |               |
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|          |  | ~                                   | ~        |          |          |  |  |  |             |  |               |
|          | Original                               | 163                                 | Stolor   | - 1      |          |  |  |  |             |  |               |
| Final    | Ę                                      | 14                                  | 1        | :        |          |  |  |  |             |  |               |
| Ξ        | 0                                      | 4                                   | 8        | Ц        | _        |  |  | _  | Щ           | Щ  | _             |
|          | 51                                     | +                                   | M        |          |          |  |  |  |             |  |               |
|          | \$2                                    | Т                                   | 1        |          |          |  |  |  |             |  |               |
|          | 53                                     | $\top$                              | Н        |          |          |  |  |  | _           |  | $\overline{}$ |
|          |  | H                                   | H        | -        |          | $\vdash$   | _  | $\vdash$   | _           | Н  | $\vdash$      |
|          | 54                                     | Н                                   | Н        | _        | _        | Н  | _  | _  |             | Н  | <u> </u>      |
|          | 55                                     | Щ                                   | Ш        |          |          | Ш  |  |  | Щ           | Ш  | _             |
|          | 86                                     |                                     | Ш        |          |          |  |  |  |             |  |               |
|          | 57                                     | П                                   |          |          |          |  |  |  |             |  |               |
|          | \$8                                    | T                                   |          |          |          |  |  |  |             | Г  |               |
| -        | 59                                     | H                                   | #        | Н        | _        | H  | Н  | $\overline{}$  | $\vdash$    | $\vdash$   | Ė             |
|          |  | H                                   | -        | _        | -        | ┝  | -  | _  | _           | $\vdash$   | _             |
|          | 60                                     | Н                                   | Щ.       |          | _        | oxdot  |  |  | _           | $\vdash$   | <u> </u>      |
|          | 61                                     | Щ                                   | Щ        | Ш        | _        | L.   | Ш  | L  | Ш           | Щ  | L             |
|          | 62                                     | Ш                                   |          |          | L        |  |  |  |             | L.   | L             |
|          | 63                                     | П                                   | П        |          |          |  |  |  |             |  |               |
| _        | 64                                     | т                                   | т        | Η.       | _        |  |  | _  | Т           | П  | Т             |
|          | Æ6                                     | ╁                                   | ₩        | Н        | $\vdash$ | $\vdash$   | $\vdash$   | Н  | H           | $\vdash$   | ⊢             |
|          | 12                                     | Η-                                  | ₩.       | Ь.,      | ļ        | <del> </del>                                     | <u> </u>   | Ь  | -           | Н  | <u> </u>      |
|          | 56 67 68 59 70 21 22 13 14 25 78 77 78 | Щ                                   | Ш        | Щ        | <u> </u> | <u> </u>   | Щ  | <u> </u>   | _           | Ш  | L             |
|          | 67                                     | Ц                                   | Ш        |          | L.       | L.   |  |  |             |  | L             |
|          | 68                                     | П                                   | П        |          |          |  |  |  |             |  |               |
|          | la o                                   | H                                   | т        |          |          | Н  | П  | $\vdash$   | ┢           | _  | ┢──           |
| _        | H                                      | H                                   | Н        | H        | _        | ⊢  | $\vdash$   | ├─   | ┝           |  | ┢─            |
|          | ļΟ                                     | Ш                                   | Ш        | L        | _        | L  | L  | L  | L           | L  |               |
|          | 1                                      | Ш                                   | Ш        |          |          | L  | L  |  | ٠.          |  |               |
|          | 12                                     | Π                                   | П        |          |          |  | ·  |  |             | Γ.   | Г             |
|          | 13                                     | 1                                   | !        | 7        |          | _  | _  | _  |             | Т  | Г             |
| _        | 1                                      | ╫╴                                  | Н        | H        | ⊢        | ┢  | ┝  | ┢  | <del></del> | ╁  | -             |
|          | T.                                     | ╙                                   | Н        | Н        | _        | -  | _  | -  | -           |  | ⊢             |
|          | LSP.                                   | ഥ                                   | Ш        | L        | L        | _  | ļ  | Ĺ  | <u> </u>    | Ŀ  | ㄴ             |
|          | 7                                      |                                     | Ш        |          |          |  |  | l  | L           |  | L             |
|          | 7                                      | ŀ                                   | П        |          |          | Г  |  |  | Γ           | Γ  | Γ             |
|          | 78                                     | ╟                                   | 11       | $\vdash$ | $\vdash$ |  |  | Т  | _           | Т  | 1             |
|          | 1                                      | ╫╴                                  | ╫╴       | -        | -        | ┼  | <del>                                     </del> |  | ┝           | ⊢  | ⊢             |
| <u>ٺ</u> | 79<br>80<br>80<br>80                   | ₩                                   | ₩        | $\vdash$ | ⊢        | ⊢  | ⊢  | $\vdash$   | <b>-</b>    | ├-   | -             |
| L.,      | 14                                     | 11                                  | 11       | L        | <u> </u> | ╙  | L  | <u> </u>   | ╙           | Ŀ  | L             |
|          | 8                                      | Ц.                                  | Ш        | ٠        | L        | L  | L  | Ŀ  | L           |  | L             |
|          | 8 <u>8</u>                             | F                                   | V        | Γ.       |          |  | Ī.   |  |             |  | Γ             |
| -        | 83                                     | F                                   |          | П        | Г        | 1  |  | Г  | _           | Γ  | Г             |
| <u> </u> | 84                                     | $\vdash$                            | $\vdash$ | -        | ┢        | <del>                                     </del> | <del> </del>                                     | -  | $\vdash$    | Н  | Н             |
| <u> </u> | _                                      | $\vdash$                            | $\vdash$ | $\vdash$ | ├        | ┼  | -  | -  | $\vdash$    | ⊢  | $\vdash$      |
|          | 85                                     | ⊢                                   | <b>├</b> | <u> </u> | <b>!</b> | $\vdash$   | ╙  | <u> </u>   |             | <b>!</b>   | L             |
| L.       | 86                                     | L_                                  | L        | L_       | L        | <u></u>  |  | _  | _           | <u> </u>   | L             |
| -        | 87                                     |                                     | 1        | l -      | Ι -      |  |  |  | i           | 1  | ľ             |
|          | 88                                     | Π                                   | П        | Г        | Ī        | Γ  | Π  |  |             |  | Г             |
|          | 89                                     | Н                                   | t        | $\vdash$ | $\vdash$ | 1  | <del>                                     </del> | $\vdash$   | $\vdash$    | $\vdash$   | ┢             |
| _        |  | $\vdash$                            | $\vdash$ | ⊢        | ├        | 1  | $\vdash$   | $\vdash$   | ⊢           | ├  | -             |
|          | 90                                     | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | $\vdash$ |          | L        | $\vdash$   | L_   | L  | 匚           | ╙  | L             |
|          | 91                                     |                                     | 1        | ł        | 1        | 1  | l  | 1  | l           | l  | l             |
|          | 92                                     |                                     | T        | Г        |          | Γ  |  |  |             | Г  |               |
| $\vdash$ | 93                                     | $\vdash$                            | $\vdash$ | ┢        | $\vdash$ | $\vdash$   | 1  | H  | _           | <del>                                     </del> | T             |
| -        | •                                      | $\vdash$                            | ⊢        |          | $\vdash$ | ⊢  | -  | $\vdash$   | ⊢           | +  | $\vdash$      |
| <u> </u> | 94                                     | ╙                                   | ┞_       | L        | _        | ╙  | ــــ   | <b>—</b>   | <u> </u>    | <b>!</b>   | ⊢             |
|          | 95                                     | 乚                                   | L        | L        | L        | L_   | $oxed{oxed}$                                     | $oldsymbol{ol}}}}}}}}}}}}}}}}}}$ | 1_          | 丄  | L             |
|          | 96                                     |                                     | Г        |          |          | ſ_   |  |  | 1           | 1  | 1             |
|          | 97                                     | Г                                   | Τ        | Г        | Г        | Г  |  | П  | Г           | T  | Г             |
| -        | 00                                     | ⊢                                   | •        | ⊢        | $\vdash$ | <del> </del>                                     | ₩-   | ⊢  | ⊢-          | <del> </del>                                     | ←             |

| Claim Date |            |   |          |          |  |              |          |          |          |            |          |  |  |
|------------|------------|---|----------|----------|--|--------------|----------|----------|----------|------------|----------|--|--|
| <u> </u>   |            |   |          |          | $\neg$                                       |              | Ů        | $\neg$   | _1       |            | _        |  |  |
| ਜ਼         | iginal     |   |          |          |  |              |          | : 1      | - 1      | -          |          |  |  |
| Final      | र्हे       | Н |          |          |  |              | 1        |          |          |            |          |  |  |
|            | 101        |   |          |          |  |              |          |          |          |            |          |  |  |
|            | 102        |   |          |          |  |              |          |          |          |            |          |  |  |
|            | 103        |   |          |          |  |              |          |          |          | П          |          |  |  |
|            | 104        | П |          |          |  |              |          |          |          |            |          |  |  |
|            | 105        |   |          |          |  |              |          |          |          |            |          |  |  |
|            | 106        |   |          |          |  |              |          |          |          |            | _        |  |  |
|            | 107        | Ш |          |          |  | Ш            |          |          |          |            |          |  |  |
| _          | 108        |   |          |          | Ш  | $oxed{oxed}$ |          |          | Ш        |            |          |  |  |
| _          | 109        | Щ |          | Щ        |  |              |          | ·        | Ш        |            | _        |  |  |
|            | 110        | Ш |          | _        | $\Box$                                       | Ė            |          | Ľ.       |          | _          | _        |  |  |
| _          | 111        | Н |          | Щ        | Ė  |              |          | <u> </u> | _        | Н          | Ŀ        |  |  |
|            | 112        |   |          | L        | <u>.                                    </u> | _            |          |          |          |            | -        |  |  |
|            | 113<br>114 | Н |          | H        | _  |              |          | -        | -        | $\vdash$   | -        |  |  |
|            | 115        | Н |          | H        | _  | Н            |          | -        | <u> </u> | -          | ├        |  |  |
| _          | 116        |   | -        | H        |  | Н            | $\vdash$ | $\vdash$ | Н        | ÷          | Ŀ        |  |  |
|            | 117        |   | -        |          |  | ┝            | $\vdash$ | $\vdash$ | Н        | Н          | -        |  |  |
| -          | 118        |   |          |          | <u>-</u>                                     | Η-           | $\vdash$ | $\vdash$ | H        | Η          | -        |  |  |
|            | 119        |   | -        | -        |  | -            | -        | -        |          | H          | -        |  |  |
|            | 120        | _ |          | -        | _  | i -          | -        |          |          | -          | -        |  |  |
|            | 121        |   |          | ├-       | Ė  | -            | H        | $\vdash$ | -        | -          | ⊢        |  |  |
|            | 122        |   | H        | $\vdash$ | <del> </del>                                 |              | -        | -        | $\vdash$ | H          | ┢        |  |  |
| _          | 123        |   | $\vdash$ | Н        | -  |              |          |          |          | Н          | Η.       |  |  |
| _          | 124        | 1 | $\vdash$ | Н        | $\vdash$                                     |              |          | ┝        |          |            | -        |  |  |
|            | 125        |   | Г        | Г        |  |              |          |          |          |            |          |  |  |
|            | 126        |   |          | 7.       |  | _            | _        |          | П        |            | ŀ        |  |  |
|            | 127        |   |          |          |  |              | -        |          |          | :          | ٦,       |  |  |
|            | 128        | Γ |          |          |  | 1            |          |          |          |            |          |  |  |
|            | 129        |   |          |          |  |              |          |          |          |            |          |  |  |
|            | 130        |   |          |          |  |              |          |          | 4        |            |          |  |  |
|            | 131        |   |          |          |  |              |          |          |          |            |          |  |  |
| _          | 132        |   | L        | L        | Ŀ  | _            | L        | <u>_</u> | L        | L          | L        |  |  |
|            | 133        |   | _        | ᆫ        | L  | L            | L.       | _        | L        | <u></u>    | L        |  |  |
|            | 134        |   | L_       | ╙        | _  | L_           |          |          | با       |            | L.       |  |  |
| _          | 135        |   | <u> </u> | L        | <u> </u>                                     | ļ            | _        | Ŀ        | <b> </b> | <u>_</u>   | L        |  |  |
|            | 136        |   | -        | Ŀ        | ┡  | ┡            | _        | ㄴ        | _        | <b>!</b> _ | L        |  |  |
|            | 137        |   |          | H        | <b>—</b>                                     | -            | <u> </u> |          | <u> </u> | -          | L        |  |  |
|            | 138<br>139 | Ŀ | -        | ⊢        | $\vdash$                                     | ├-           | <u> </u> | ļ.       | ┝        | L          | L        |  |  |
| _          | •          | _ | ├        | ⊢        | ⊢  | ├            | ⊢        | -        | ⊢        | ┝          | Ŀ        |  |  |
|            | 140        |   | ├-       | <u>.</u> | Ľ  | ⊢            | ┢        | <b>!</b> | ļ        | -          | _        |  |  |
|            |            |   | _        | L        | <b>!</b>                                     | <u> </u>     | _        | <b> </b> | <u> </u> | L          | L        |  |  |
|            | 142        |   | $\vdash$ | -        | ⊢  | ⊢            | -        | <b>-</b> | <u> </u> | ├-         | Ļ.       |  |  |
|            | 144        |   | $\vdash$ | $\vdash$ | -  | ├-           | $\vdash$ | -        | ├        | ⊢          | ⊢        |  |  |
| _          | 145        | ┪ | $\vdash$ | ┝        | -  | -            | $\vdash$ | -        | -        | -          | ⊢        |  |  |
|            | 146        |   | $\vdash$ | ┢        | Η.   | Н            | -        | -        | -        | -          | ⊢        |  |  |
|            | 147        |   | $\vdash$ | -        | $\vdash$                                     | $\vdash$     | ╁        | -        | -        | $\vdash$   | $\vdash$ |  |  |
|            | 148        |   | $\vdash$ | $\vdash$ | $\vdash$                                     | ├-           | ╁        | ┢        | $\vdash$ | -          | -        |  |  |
|            | 149        |   | -        | H        | ┢  | 1            | 1-       | t        | $\vdash$ | 1          | ┢        |  |  |
|            | 150        |   | ⊢-       | +        |  |              | ⊢        | ₩        | ⊢-       | ₩.         | 1        |  |  |

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